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FACT SHEET REGARDING STUDY AREA 39 NTC ORLANDO FL  
3/1/2010  
NTC ORLANDO



# Naval Training Center Orlando Florida



## Study Area 39 (SA 39)

*This fact sheet was developed to inform interested citizens about the Naval Training Center (NTC), Orlando environmental program. Fact sheets will be distributed periodically to keep the community informed. Additional copies of these fact sheets can be obtained by contacting Art Sanford at (843) 743-2135.*

### NTC Orlando's Environmental Program

Environmental studies and cleanup actions are currently underway at the former NTC, Orlando as part of the Department of Defense's Installation Restoration (IR) Program. Through this program, areas of known or suspected contamination from past practices and operations are being identified, evaluated, and, if necessary, cleaned up.

### Site Description

Study Area 39 is located in the southwest corner of the Former Main Base at the former NTC, Orlando (Figure 1).

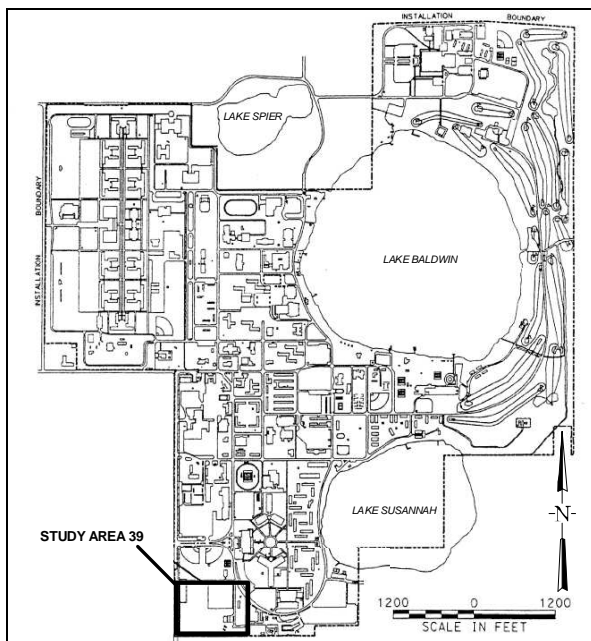


Figure 1: NTC Orlando Base Map with Study Area 39 highlighted

Study Area 39 encompasses a 12.88-acre parcel of land that has been developed for residential use. Fox Street and Enders Street currently run east and west through Study Area 39 (Figure 2). Previously, the northeastern corner of the property was occupied by a paved parking lot. A stormwater retention pond was located in the

central portion. Building 137, the Hazardous Materials Storage Facility, was located in the southeast corner. The southwest corner was undeveloped and covered with grass. This area was once used as a coal staging area before disposition to the various steam-generating boilers located throughout the facility. In the western portion of the site, unexploded ordnance disposal was suspected.

### Site Investigation and Monitoring History

Investigations at SA 39 began in 1996. These studies included:

- a site walkover
- a review of aerial photographs
- a review of historical documents,
- a geophysical survey
- an unexploded ordnance survey
- a passive soil gas survey, and
- collection of soil, groundwater, sediment, and surface water samples from selected areas.

The geophysical survey was performed across the entire site to locate any buried objects that may pose a threat to the environment, such as drums, storage tanks, and unexploded ordnance. The survey was also designed to delineate the boundaries of the former landfill. The survey results indicated the presence of numerous small metallic objects. These objects were excavated and examined by Navy experts; however none of them were related to unexploded ordnance. The material consisted primarily of construction debris, including lumber, metal fragments, and glass. The survey results did not indicate any direct evidence of the presence of a landfill.

Chlorinated solvents were found at several sampling points in the southeast corner of the property. Groundwater samples were later collected from this area, and confirmed that chlorinated solvents were present in the groundwater at concentrations that exceeded the federal and state allowable limits for drinking water. The primary contaminant is tetrachloroethene (PCE). The contaminated

groundwater was isolated to the southeast corner of SA 39 and to the shallow groundwater aquifer.

From 2000-2001, vegetable oil injection was performed in order to promote the natural degradation of contaminants. In December 2001, all monitoring wells at the site were abandoned to facilitate development of Baldwin Park in the vicinity of the site. In April and May 2002, 20 new wells were installed at the site adjacent to previous well locations (Figure 2).

### What is PCE?

**Tetrachloroethene (PCE)** is a manufactured chemical used for dry cleaning and metal degreasing.

More information about this contaminant can be found at the following website:

<http://www.atsdr.cdc.gov/>

### What's Next?

Groundwater monitoring is ongoing, and results indicate that natural degradation is occurring. Cleanup goals will be met when contaminant concentrations in groundwater are below Florida Groundwater Cleanup Target Levels. To protect human health, use of groundwater is prohibited until groundwater cleanup standards are met. The groundwater is currently monitored annually.

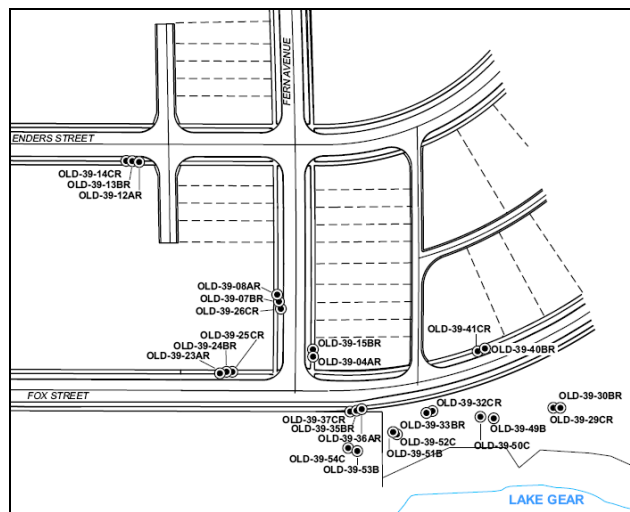


Figure 2: Study Area 39 Site Map indicating locations of wells.

### For More Information

The public is invited to submit any questions or comments on the remedial action described in this fact sheet. Written or verbal comments should be directed to Art Sanford at (843) 743-2135. Reports on the work conducted at this site can be reviewed at the Orange County Public Library, Orlando Branch (4th Floor), 101 East Central Boulevard, Orlando, Florida 32801.